PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL APPLICATION AS PUBLISHED OR REPUBLISHED

The International Bureau transmits herewith the following documents:

To:					
10.				•	

AOKI, Atsushi
A. AOKI, ISHIDA & ASSOCIATES, Toranomon 37 Mori Bldg.,
5-1, Toranomon 3-chome, Minato-ku, Tokyo
1058423
JAPON

ranomon 37 Mori Bldg., Tokyo 17, 2, 24.

Date of mailing (day/month/year)
17 February 2005 (17.02.2005)

No. WO 2005/014651

Applicant's or agent's file reference P817-PCT

IMPORTANT NOTICE

International application No. PCT/JP2004/011812

International filing date (day/month/year) 11 August 2004 (11.08.2004)

Priority date (day/month/year)
11 August 2003 (11.08.2003)

Applicant

CHUGAI SEIYAKU KABUSHIKI KAISHA et al

copy of the international application as published by the International Bureau on 17 February 2005 (17.02.2005) under

copy of international application as republished by the International Bureau on under

No. WO
For an explanation as to the reason for this republication of the international application, reference is made to INID codes (15), (48) or (88) (as the case may be) on the front page of the attached document.

REST AVAILABLE COPY

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Yoshiko Kuwahara

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 90 90

Form PCT/IB/311 (January 2004)

(19) 世界知的所有権機関 国際事務局



(43) 国際公開日 2005年2月17日(17.02.2005)

PCT

(10) 国際公開番号 WO 2005/014651 A1

(51) 国際特許分類7: C07K 16/30, C12N 15/12, C12P 21/08

(21) 国際出願番号:

PCT/JP2004/011812

(22) 国際出願日:

2004年8月11日(11.08.2004)

(25) 国際出願の言語:

日本語

(26) 国際公開の言語:

日本語

(30) 優先権データ:

特願2003-207165 2003年8月11日(11.08.2003)

- (71) 出願人 (米国を除く全ての指定国について): 中 外製薬株式会社 (CHUGAI SEIYAKU KABUSHIKI KAISHA) [JP/JP]; 〒1158543 東京都北区浮間5丁目 5番1号 Tokyo (JP).
- (72) 発明者; および
- (75) 発明者/出願人 (米国についてのみ): 土屋 政幸 (TSUCHIYA, Masayuki) [JP/JP]; 〒4128513 静岡県御 殿場市駒門1丁目135番地中外製薬株式会社内 Shizuoka (JP). 飯島 成幸 (II,JIMA, Shigeyuki) [JP/JP]; 〒4128513 静岡県御殿場市駒門1丁目135番地 中外製薬株式会社内 Shizuoka (JP). 周郷 泉 (SUGO、 Izumi) [JP/JP]; 〒4128513 静岡県御殿場市駒門1丁 目135番地中外製薬株式会社内 Shizuoka (JP). 杉 本正道 (SUGIMOTO, Masamichi) [JP/JP]; 〒2478530 神奈川県鎌倉市梶原200 中外製薬株式会社内 Kanagawa (JP).

- (74) 代理人: 青木 篤, 外(AOKI, Atsushi et al.); 〒1058423 東京都港区虎ノ門三丁目5番1号 虎ノ門37森ビ ル 青和特許法律事務所 Tokyo (JP).
- (81) 指定国(表示のない限り、全ての種類の国内保護が 可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ; DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) 指定国(表示のない限り、全ての種類の広域保護が可 能): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッパ (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

添付公開書類:

国際調査報告書

2文字コード及び他の略語については、定期発行される 各PCTガゼットの巻頭に掲載されている「コードと略語 のガイダンスノート」を参照。

(54) Title: SUGAR CHAIN-MODIFIED ANTI-HM1.24 ANTIBODY

(54) 発明の名称: 糖鎖改変抗HM1.24抗体

(57) Abstract: Sugar chain modification makes it possible to provide the following antibody having enhanced antibody-dependent cellular cytotoxicity (ADCC), i.e., an antibody having a sugar chain free from an antibody against HM1.24 antigen (anti-HM1.24 antibody, more specifically speaking, α -1,6 core fucose), an antibody having a sugar chain having a bisecting N-acetylglucosamine (GlcNAc) structure, or an antibody having a sugar chain free from α -1,6 core fucose and having a sugar chain having a bisecting N-acetylglucosamine (GlcNAc) structure.

(57) 要約: 糖鎖の改変により抗体依存性細胞傷害性(Antibody-Dependent CellularCytotoxicity; ADCC)が増強された、 HM1.24抗原に対する抗体(抗HM1.24抗体、具体的にはα-1,6コアーフコース (α-1,6corefucose) を含まない糖鎖を 有する抗体、パイセクティング(bisecting)N-アセチルグルコサミン(GlcNAc)構造を有する糖鎖を有する抗体、 又はα-1,6コアーフコース(α-1,6corefucose)を含まない糖鎖を有し、且つバイセクティング(bisecting)N−アセチ ルグルコサミン(GlcNAc)構造を有する糖鎖を有する抗体。

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/011812

A. CLASSIFIC Int.Cl ⁷	ATION OF SUBJECT MATTER C07K16/30, C12N15/12, C12P21/	08			
According to Inte	ernational Patent Classification (IPC) or to both national	l classification and IPC			
B. FIELDS SE.					
Minimum docum Int.Cl ⁷	centation searched (classification system followed by classification syste	ssification symbols) '08	•		
	earched other than minimum documentation to the exten				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) BIOSIS/WPI (DIALOG)					
C. DOCUMEN	TS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	·	Relevant to claim No.		
Y	Ltd.), 03 September, 1998 (03.09.98) Full text	aceutical Co., , 972524 Al	1-12		
Y	JP 10-286088 A (Chugai Pharm Ltd.), 27 October, 1998 (27.10.98), Full text & WO 98/35698 A1 & & EP	1-12			
Y	WO 02/31140 A1 (Kyowa Hakko 18 April, 2002 (18.04.02), Full text & EP 1331266 A1	Kogyo Co., Ltd.),	1-12		
× Further do	ocuments are listed in the continuation of Box C.	See patent family annex.			
* Special cate "A" document d to be of part "E" earlier appli filing date "L" document w cited to est special rease "O" document re "p" document p the priority Date of the actua 20 Octo	gories of cited documents: efining the general state of the art which is not considered icular relevance cation or patent but published on or after the international which may throw doubts on priority claim(s) or which is ablish the publication date of another citation or other on (as specified) eferring to an oral disclosure, use, exhibition or other means sublished prior to the international filing date but later than date claimed al completion of the international search ober, 2004 (20.10.04)	"To later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family Date of mailing of the international search report 09 November, 2004 (09.11.04)			
Name and mailir Japane	ng address of the ISA/ se Patent Office	Authorized officer Telephone No.			
racsimile ivo.					

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/011812

C (Continuation)	. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Y	JP 2002-512014 A (UNAMA, Pablo), 23 April, 2002 (23.04.02), Full text & WO 99/54342 Al	1-12	
. Ұ	WO 02/79255 Al (IDEC PHARMACEUTICALS Co.), 10 October, 2002 (10.10.02), Full text (Family: none)	1-12	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/011812

Box No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item1.b of the first sheet)
1. With inven	gard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed on, the international search was carried out on the basis of:
a.	pe of material
	a sequence listing
	table(s) related to the sequence listing
Ъ.	rmat of material
	in written format
	in computer readable form
c.	me of filing/furnishing
	contained in the international application as filed
1	filed together with the international application in computer readable form
	furnished subsequently to this Authority for the purposes of search
2. 🖂	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed
2. ×	r furnished, the required statements that the information in the subsequent or additional copies is identical to that in the
	pplication as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Addi	onal comments:
I	